

ABSTRACTCOMPUTER SYSTEM

5           A computer system is arranged to provide protection against faults. The  
computer system comprises a plurality of processing sets (14, 16), each having at least  
one processor (52) and a bridge (12) coupled to each of the processing sets (14, 16)  
and operable to monitor a step locked operation of said processing sets (14, 16). Each  
of the processors (52) has a processor identification register (64) which is  
10 read/writeable and is operable to store in the register data representative of a processor  
identification. The processors (14, 16) are arranged, consequent upon a masking  
condition, to load a common predefined data value into the processor identification  
register, which predefined common data value has an effect of masking the processor  
identification. The erroneous detection by the bridge (12) of a fault condition  
15 resulting from functionally the same processors having a different processor  
identification is thereby avoided, or at least the likelihood of a false detection reduced.  
The masking condition may be, for example, a boot or re-boot of a processing set, or a  
forced re-configuration or initialization of the processing system instigated by an  
operating system.

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Figure 6 for Abstract